

## ACS 1803 Assignment 4

**Due: November 26, 2019**

**Submit: Victor Balogun**

**Total 30 marks.**

**To be done individually.**

### Part A (20 marks)

Read the following scenario, and respond to the requirement: The Company you work for is purchasing brand new desktop computers to replace the old outdated ones that it has had in its offices. Your Company wants to be able to utilize the Internet to enable the staff to connect to external web services in performing their work. A local distributor has been contacted, requesting specifications of the types of PCs they offer for businesses. They have responded providing specifications for two different types of PCs. Your boss has requested that you write a report with your recommendations regarding which option is the best. Write a 2 - 3 page report with your recommendation, specifying reasons for your recommendation. Please make sure that all technical concepts are explained on the report.

- Describe the type of business that you work for (i.e. business type, industry, services provided). You may also make up the business.
- Describe the importance of the technology purchase to the business.
- Describe how each of the key technology components (included on the specifications sheet) work.
- Describe how a typical web session works while referencing some of the key network technology components.

Additional Notes:

- You may make whatever assumptions you would like to support your case.
- Please make sure that all technical concepts (described in the specifications for each computer hardware/software) are explained on the report. The specifications provided for each of the Proposed PC models are shown on the next page.
- On your report, include explanation for each component included on the specification sheet, and make sure that your explanations are written in a language that your boss, a non-technical individual, is able to understand easily.
- Refer to the lecture notes, text, and research the Internet (if required) to complete your analysis and report. Please be sure that you reference your research source(s).

The specifications provided for each of the Proposed PC models are below (see next page for details):

Computer Hardware		
Specifications	PC1	PC2
CPU:	1.8GHz AMD quad-core processor	2.3 GHz dual-core processor
Bus Speed:	SATA: 1.5 Gbps and 3.0 Gbps	SATA: 1 Gbps and 2.0 Gbps
RAM Memory	Installed: 8 GB	Installed: 4 GB Expandable to 8 GB
Hard Drive / Disk Storage	512 GB Storage Speed: 5400RPM	1 TB Storage Speed:
Optical Drive:	CD+DVD	CD+DVD+BlueRay
Video Card:	NVIDIA® GeForce® 940M Graphics 2048 GB Video memory	AMD Radeon™ R6 Graphics 1028 MB Video
Audio Card:	Integrated 6-Channel (5:1) High-Definition Audio Card	Audio included with motherboard
Network Support:	10/100 BASE-T Ethernet LAN	10/100 BASE-T Ethernet LAN
Integrated Wifi:	1x1 802.11b/g/n WLAN	1x1 802.11ac WLAN
Bluetooth Connectivity	Yes	No
Input / output	Webcam: Yes	Webcam: No
	USB Ports: 2	USB Ports: 4
	VGA Monitor Port: None	VGA Monitor Port: 1
	Three connectors for line-in, line-out, and microphone, two front-panel connectors for headphones and microphone	Two Rear audio jacks, and two front audio jacks (Microphone and headphones)
External Devices:	Monitor: LCD 19" Screen	Monitor: LCD 21" screen
	Keyboard and Mouse Included	Keyboard and mouse included

Computer Software		
Specifications	PC1	PC2
System Software:	Windows 10 Home	Windows 10 Pro
Application Software	Office 2013 (CD Included, not installed)	Office 2013, Installed
Utility Software:	(CD Included, Not installed)Antivirus, Spyware detection, Firewall, Filebackup software, Data compression	Antivirus, Spyware detection, Firewall All installed

### Part B (10 Marks)

Your friend wants to start an ecommerce website to commercialize some crafts she has been creating. She has approached you for an explanation on the basics to start an ecommerce website.

Write a 1 - 2 page essay explaining to your friend what she needs to know to begin an e-commerce website. As part of your essay make sure you include:

- A definition of what ecommerce is.
- A definition of the Internet and the World Wide Web, and how they are used to facilitate ecommerce.
- Categories of ecommerce, and the category that your friend would be implementing.
- How the key components of an eBusiness solution work (front end/ back end).
- The steps your friend would follow to set up an ecommerce website:
  - Selecting an eCommerce business strategy
  - Getting a domain name
  - Developing a site (tools, design, services)
  - Deciding whether to develop/host the site herself or seek an external host service provider (identify the pros/cons of each decision)
  - Implementing a method to collect payments
  - Establishing basic management methods to mitigate typical security threats (describe some typical threats)